

Comparison of the new activated charcoal "Acticarbon NOO" with super-norite. K. REICH and G. VAVRINEC. *Listy cukrovár*, 48, (1935-6)(1030).—Both charcoals were tried out on a com. scale of 40 kg. per filter press. No I and No. II ferrous liquors were used. The rate of filtration for a no. I liquor was Norit: Acticarbon = 45:55; for a no. II liquor the ratio was 49:51. The porosity of the filter decreased rapidly with the aging of the filter mass in both cases; the adsorption ability of Norit fell off abruptly while that of Acticarbon fell off gradually. The full adsorption power of Acticarbon was not obtained in the expts. Acticarbon showed a lower adsorption for Ca while Norit showed a tendency toward lowering the alk. by adsorbing Ca. FRANK MARESH

H

36

ELELMEZESI IPAR
FOOD INDUSTRY
VOL. V. —1951
No. 3, Feb.

G. Varghese;
 Hydrates of sugar 9.1 9.5
 Question box 9.5 9.5

ASA SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND COLUMNS										3RD AND 4TH COLUMNS									
PROCESSES AND PROPERTIES INDEX																			
BC										B-IV-2									
Iodometric determination of copper in sugar and other liquids containing organic substances. H. ROSENBLON and O. VAVRINEC (Magy. chem. Vol., 1934, 66, 66-66; Chem. Zentr., 1935, i, 3017).—The liquid is neutralized with AcOH or HCl, using the colour change of the Cu compound as indicator, and adjusted to pH 3 (Me-orange). 1 g. of KI is added per 10 c.c. of liquid, and the I titrated with 0.02N-Na₂S₂O₃. H. J. R.																			
A.S.B.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 2ND COLUMNS										3RD AND 4TH COLUMNS									
1ST AND 2ND COLUMNS										3RD AND 4TH COLUMNS									

1ST AND 2ND DEGREE										3RD AND 4TH DEGREE									
PROCESSES AND PROPERTIES INDEX																			
6611 513846 76. Determination of the nitrogen content of sugar mill products by means of the distilling apparatus, by G. Vavrinec, L. Cukorpar. Sugar Industry. Vol. III. No. 2, pp. 31-37, Feb. 1960. The experiences gained in the course of employing the distilling apparatus proposed by Benze affirmed the practical usefulness of the device in sugar mill laboratories. The original method has been modified and the distillate is collected with an addition of 5 ml 1 per cent boric acid solution. The careful preparation of this solution is essential, the use of boric acid containing traces of ammonia or carbonic acid or carbonate should be avoided. The apparatus is also suitable for mass titration, the results are fairly reliable and the manufacturing costs low. Practical advices are given for the carrying out of serial routine work. Bibliographic references. 6611 142611 (Abstr. 67)																			
ASB-1LA METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 2ND DEGREE										3RD AND 4TH DEGREE									
1ST AND 2ND DEGREE										3RD AND 4TH DEGREE									

100
90
80
70
60
50
40
30
20
10
0

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

EST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

1ST AND 4TH ORDERS

ca

Crystallographic investigation of sucrose. VIII. Industrial products of various origin. G. Vavrinev. *Dent. Zuckerind.* 66, 257(1941).—See C. A. 35, 3473.

R. I. C.

COMMON ELEMENTS

OPEN

MATERIALS INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTERS

1ST AND 2ND LETTERS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

The determination of the sugar content of saturation mud. G. VAVRINEC. *Z. Zuckerind. techn. Rep.* 56, 302 4 (1930).-- V. describes and discusses the 17 factually
 7) methods he has used for polarizing mud. Also in *Listy Cukrovar.* 48, 750 (4) (1930).
 J. F. LEITE

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION
 3300 510 0319A
 140185 01

1ST AND 2ND INDEXES										3RD AND 4TH INDEXES									
PROCESSES AND PROPERTIES INDEX																			
94 37 Gukoripar THE SUGAR INDUSTRY Vol. 1V. - 1951 No. 1, Jan. 6. <i>Vaccines</i>... Nitrogen compounds of the sugar beet in general and the determination of detri- mental nitrogen by photocolormetry ... 12 13																			
ASB-568 DETALLURGICAL LITERATURE CLASSIFICATION																			
1ST INDEX										2ND INDEX									
3RD INDEX										4TH INDEX									

Treatment of low-grade masscutes. G. Vavrincek and K. Vukov (*Cukorpar*, 1982, 5, 57-60; *Sag. Ind. Mill.*, 1952, 14, 66).—Problems of control of supersaturation, rate of cooling ($>2^{\circ}$ per hr.), avoidance of fine grain, effects of η , dilution methods, etc. are discussed. By boiling to higher $^{\circ}$ Dels, and then diluting the masscutes in the mixers, more rapid cooling to $40-45^{\circ}$ is possible; the masscutes must then be reheated to 50° before centrifuging.
P. S. ARUP

PROCEDURES AND PROPERTIES INDEX																									
BC A-3 Determination of invert sugar (and other reducing sugars) without filtration of cuprous oxide. H. ROSOS-ROSENBLUM and G. VANAMBERG (Magyar. chem. Fcl., 1935, 41, 192-195; Chem. Zentr., 1935, 1, 3374).—An iodometric method is described. H. N. R.																									
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																									

BC

R-2

Malloyite and dolomite of Mártonbágy (Martinsberg), Hungary. G. VAYLENKO (Magyar chem. Fol., 1935, 44, 9-77; Chem. Zentr., 1936, 1, 306).— Analyses are recorded. J. S. A.

ASM-51A METALLURGICAL LITERATURE CLASSIFICATION

SECTION	SECTION ONE ONLY	SECTION TWO ONLY	SECTION THREE ONLY	SECTION FOUR ONLY	SECTION FIVE ONLY	SECTION SIX ONLY	SECTION SEVEN ONLY	SECTION EIGHT ONLY	SECTION NINE ONLY	SECTION TEN ONLY	SECTION ELEVEN ONLY	SECTION TWELVE ONLY	SECTION THIRTEEN ONLY	SECTION FOURTEEN ONLY	SECTION FIFTEEN ONLY	SECTION SIXTEEN ONLY	SECTION SEVENTEEN ONLY	SECTION EIGHTEEN ONLY	SECTION NINETEEN ONLY	SECTION TWENTY ONLY
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

1ST AND 2ND ORDER										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH ORDER									
BC																				A-2									
Mineral analyses. G. VARECHKA (Magyar chem. 1931, 1932, 1933, 1934; Chem. Zentr., 1933, 1, 2830). Analyses of various Hungarian and other minerals are recorded. A. A. E.																													
ASM-34A METALLURGICAL LITERATURE CLASSIFICATION																													
FROM SYNDICATE										FROM BOWLING										FROM BOWLING									
SYNDICATE										BOWLING										BOWLING									

1ST AND 2ND GROUPS													3RD AND 4TH GROUPS												
PROPERTIES AND PROPERTIES INDEX																									
BC A-2 Antimony-rich enargite from Roosh, Hungary. G. VAYSSIERE (Bull. Min. Ind., 1931, 64, 438-439; Chem. Zentr., 1932, I, 831).—The material, d 4-12, contained Cu 44.34, Pb 0.81, Fe 0.99, Zn 0.04, As 7.00, Sb 10.16, S 35.13, H₂O 1.05, rock 0.86, O (calc.) 4.32%. A. A. E.																									
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION																									
FROM SYNTHEM													FROM NOMIN												
1ST GROUP													2ND AND 3RD GROUPS												
1ST AND 2ND GROUPS													3RD AND 4TH GROUPS												

1ST AND 2ND ORDER										3RD AND 4TH ORDER									
PROCESSES AND PROPERTIES INDEX																			
BC										a-2									
Abstracted from <i>Journal of the American Chemical Society</i>, 1948, 70, 301-305. Chem. Abstr., 1948, 42, 1001. H. J. E.																			
ASSOCIATION METALLURGICAL LITERATURE CLASSIFICATION																			
REGION STRESSING										REGION BOWING									
1ST AND 2ND ORDER										3RD AND 4TH ORDER									
1ST AND 2ND ORDER										3RD AND 4TH ORDER									

1ST AND 2ND GROUPS										3RD AND 4TH GROUPS									
PROCESSES AND PROPERTIES INDEX																			
<i>BC</i> B 3-4 Examination of tomatoes and tomato preserves. E. ROSEN and O. VAYNSKY (Moscow, USSR, 1937, 10, 156-163).—A rapid procedure for the determination of sugar is outlined, avoiding removal of Pb and filtration of Cu_2O. E. O. S.																			
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																			
FROM SYMBOL										FROM SYMBOL									
SYMBOL										SYMBOL									

BC

B-2-3

Iodometric determination of copper in presence of sugar. K. ROZENTHAL-ROSEN and G. VAYNBERG (Z. Zuckerind. Cernichov., 1936, 66, 182-184; Internat. Sugar J., 1936, 38, 311).—It is impossible to apply Low's iodometric method to the determination of the unreduced Cu in Fehling's solution without filtration, but the following modification is recommended. Boiling is carried out in a calibrated flask, and immediately on completion the liquid is filled up to the mark with distilled H_2O , and an aliquot portion pipetted into a smaller flask. To it are added an excess of KI solution and dil. HCl, after which it is at once titrated with standard $Na_2S_2O_3$ solution. J. P. O.

BC

A-1

Crystallographic study of sucrose. IV. G. VAVRINOS (Magyar Chem. Fol., 1933, 39, 40-49; Chem. Zentr., 1933, II, 210).—The effect of 91 org. and inorg. compounds on the morphology of sucrose crystallized from 70% aq. solution at room temp. has been studied; in most cases small effects are produced. A. A. E.

COMMON ELEMENTS

MATERIALS INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNDICATE										FROM ROMNEY									
SYNDICATE										ROMNEY									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

BC

Crystallographic study of sucrose. V.
Crystals from solutions of different purity;
twinning types. G. VAVRINEC (Magyar Chem.
Fol., 1939, 42, 124-138; Chem. Zentr., 1937, 1,
1692; cf. A., 1934, 18).—Morphological data are given
for sucrose crystals from different stages of manu-
facture, and the twin formations are studied.
A. J. E. W.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

BC

Practical (sugar-factory) laboratory notes. G. VAYRUBS (Z. Zuckerind. Czechoslov. 1932, 56, 555-566).—In the author's laboratory, all Stett or Kohlrausch (so-called juice-polarisation) flasks are made in the Erlenmeyer form. The funnel of the continuous-flow polarisation tubes is made smaller than usual, i.e., so as to contain $> 30-40$ c.c., thus permitting the use of $80-100$ c.c. of the liquid, which is added all at once. In H^+ determination by the colorimetric method he uses the Bjerrum-Arrhenius double-wedge colorimeter, by means of which results are obtained very rapidly and with an accuracy within 0.05 pH. J. P. O.

B-TH-2

BC

153
2

Known polarization with Maries' lead nitrate classification.
G. Maries (Métallurgie de l'or, 1900, 2, 25-27; Sug. Ind.
Apr., 1901, 18, 27). The Maries' $Pb(NO_3)_2$ reagent gives lighter-
colored solutions in classification and more const. results than does
 $Pb(OAc)_2$, resulting in more accurate polarimetric readings. Pb
salts of HNO_3 acids are somewhat sol. in acetate solutions.
P. S. ARUP.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

PROCESSING AND PROPERTIES INDEX

B-III-2

BC

Decolorizing experiments (on sugar juice) with activated carbons: G. Váňa (Z. Zachariáš, Ochochlov., 1933, 56, 547-548).—Results of refinery tests are described, intended to show the relative efficiencies of 3 activated carbons in terms of the amounts of each necessary to absorb 1 kg. of "succinic acid," these being given as follows: Superior Norit 64.5, Carborafin-35.0, Acticarbon 41.8. J. P. O.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL LITERATURE										REGIONAL LITERATURE									
GROUPS										GROUPS									
GROUPS										GROUPS									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

BC

A-2

Analysis of minerals from Banská, Hungary.
G. VAYNANO (Magyar chem. Fel. 1936, 38, 1-3;
Chem. Abstr. 1936, 1, 2931). The following data are
recorded: chalcanthite, 4.2-22, CuO, 28-34, FeO
0-12, SO₃, 38-45, rock 2-27, H₂O (loss), 34-39, main-
ly FeO 24-32, CuO 3-14, Al₂O₃, 0-20, SO₃, 12-31,
rock 2-35, H₂O (loss), 43-50%; pyrite, 2.1-218-1-37,
rock 2-35, H₂O (loss), 43-50%; pyrite, 2.1-218-1-37,
CuO 4-20, FeO 15-12, Al₂O₃, 10-17, SO₃, 12-35,
rock 0-18-1-37%; halotrichite, 2.1-24-1-35, FeO 7-45,
CuO 0-27, CuO (loss), Al₂O₃, 10-24, FeO, 1-17, SO₃,
34-35, H₂O (loss), 43-50%; kochanite, CuO 56-1, FeO
1-3, CuO 1-3, Al₂O₃, 2-3, SO₃, 17-1, SO₃, 0-2, H₂O
(loss), 20-45%.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

BC

A-1

Isometric standard of high equivalent weight.
G. VAYRANCK (Magyar chem. Vol., 1936, 42, 1-2;
Chem. Zentr., 1936, ii, 1029).—Very dil. (~0.02N.)
 $\text{Na}_2\text{S}_2\text{O}_8$ is conveniently standardised with
 $(\text{NH}_4)_2\text{C}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$ (I) (equiv. wt. 277.51), which is
stable in air and retains its H_2O over CaCl_2 at room
temp. A weighed amount of (I) is titrated
immediately after dissolution in 1-2 c.c. of H_2O and
addition of 0.5 g. of KI; AcOH is also added if the
 $\text{Na}_2\text{S}_2\text{O}_8$ contains an alkaline preservative.

A. J. E. W.

28

.C.A.

determination of nitrogen content of sugar-mill products
Gabor Vavrinec. *Cukorsipar* 3, 34-7 (1950). The app.
proposed by Benzke (C.A. 43, 5211) proved to be very suit-
able in sugar-mill practice. The operation of this app., the
method of detn., and the ways to avoid sources of errors are
explained. Finally

1951

17

Crystallographic investigation of sucrose. VII. Crystals from sugar cane. Gábor Vavrinecz. *Magnus Chem. Polytechnical* 43, 176-80 (1947); cf. C. A. 31, 1640.
Morphological characteristics of sugar crystals from Demerara, Trinidad, Jamaica, Cuba, Australia, Java and Egypt are described. S. S. de Finály

ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

7

A standard of high equivalent weight for thiosulfate solutions. Gábor Vaynskii. Magyar Chemist Folyóirat 42, 1-3 (1939).-- It is recommended to use $(\text{NH}_4)_2\text{CuCl}_4 \cdot 2\text{H}_2\text{O}$ for standardizing 0.02 N solns. of $\text{Na}_2\text{S}_2\text{O}_3$. Directions for preparing the pure salt are given. S. S. de F.

ASH, S. L. A. METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1

CA

28

The iodometric copper determination in the presence of sugar and organic nonsugars. A rapid and simple determination of reduced copper without the necessity of a filtration. Erzsébet Rolau (nee Rosenbluh) and Gabor Vavrincez. *Z. Zuckerind. Technol.* Rep. 60, 182-1, 191-2, 197-200(1036). See C. A. 29, 40639. Frank Marsh

ASAC 55.4 - METALLURGICAL LITERATURE CLASSIFICATION

ca

28

Crystallographic examination of sucrose. V. Crystals from solutions of various degrees of purity, and twin crystals. Gábor, Yavruccz. *Magyar Chem. Folyóirat* 42, 124-39(1938).—Detailed data on sucrose crystals from various stages of sugar manuf. are given. S. S. de F.

ASH-SLA DETALLOPKAI LITERATURE CLASSIFICATION

Crystallographic investigation of sucrose. VIII. In-
dustrial products of various origin. Gábor Vavrinecz.
Magyar Chem. Földyirat 46, 83-97 (1940).—Crystall-
ographic data are given for sucrose from Indian, Australian,
Hungarian, Austrian and Italian factories. The needle
crystals of a product from Mezőbgyes (Hungary) were
similar to the columnar sucrose crystals from a cane-sugar
factory of Egypt. This similarity is attributed to simi-
larity of the soils (soda-alkali type). S. S. de Finlay

Crystallographic examination of sucrose. III. Crystals formed in different solvents. GABON, NABINGU. *Magyar Chem. Folyóirat* 37, 203-12(1931); cf. C. A. 25, 5044. Chemically pure sucrose was crystd. in different solvents and the morphological properties of the crystals were studied. Sucrose was not dissolved by gasoline (d. = 0.745), turpentine, benzene, toluene, CHCl₃, CCl₄, PhBr, CS₂, PhNO₂, MeOAc or anhyd. acetone. Crystals formed in 100, 70 and 50% MeOH, in abs. 90 and 50% EtOH, fermentation amyl alc., fused phenol, EtOAc, AmOAc, acetone conlg. water and aniline. Photographs of the crystals are given. S. S. DE FINALLY

100

CRYSTALLOGRAPHIC EXAMINATION OF SUCROSE. II. Crystals of lyes of sugar factories. GÁBOR VÁVRINÉCI. *Magyar Chemiai Polyéirai* 37, 145-57 (1931); cf. *Magyar Chemiai Polyéirai* 31, 29-37 (1925).—Statistical data of the occurrence of several forms are published in tables. Twin crystals of 3 types were found, all following the same law; the c-axis was the twin axis.

S. S. DE FINÁLY

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

AN Iodometric determination of copper in the presence of sugar and organic nonsugars; a rapid and a simple determination of copper without filtration. Przeczot Rosenbluh and Gaber Vaynsneyr. *Listy Zakazn.* 53, 157-63 (1935); *Ch. Z.* 29, 17381. The Low method cannot be used for detg. Cu in solns. contg. sugar or org. nonsugars, for the reaction $2CuCl_2 \rightarrow Cu_2Cl_2 + 2HCl$ demands an acid medium. The presence of org. substances retards and buffers the reaction. When 4 or 5 times the necessary KI is added to the soln. and the mixt. is brought into the range pH 3.2-2.0 with dil. HCl, the titration can be carried out with $Na_2S_2O_8$ immediately. The modification was used to det. the unreduced Cu in Fehling's, Bertrand's and other solns. However, it is necessary to carry out the reduction process in a volumetric flask and to cool immediately after the boiling. When the soln. is at 20°, the flask is filled to the mark with distd. H_2O , shaken and an aliquot portion is pipetted and treated immediately according to the suggested modification. The soln. must not be filtered. Frank Marech

1ST AND 2ND GROUPS																									
1ST GROUP													2ND GROUP												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Crystallographic examination of sucrose. IV. Influence of other ingredients in aqueous solutions at normal temperature. GÁBOR VAVRINEC, <i>Magyar Chemist Folyóirat</i> 39, 40-41 (1933); cf. C. A. 26, 1492. Four series of expts. with 70% sugar solns contg. nonsugar ingredients in the ratios 1:10,000, 1:1,000, 1:100 and 1:10 showed that the quality of nonsugars had generally very little influence on the cryst. form of sucrose at room temp. S. S. DE FINÁLY																									
ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION																									

12

ca

TEST AND INSPECTION PROCESSES AND PROPERTIES INDEX

Rapid analysis of raw and canned tomato. Researcher Robert and Viktor Vavrinec. *Mesogastropoda Kachibok* 10, 158 (1917); *Tryballe* is detd. by the method of Rosenberg (cf. *Konservenindustrie* 35, 257 (1929)) with the modification that drying for 10 hrs. at 98-100° is used. To det. acid weigh out 100 g. substance, make up to 200 cc., heat on the water bath for 30 min., and titrate 20 cc. of filtrate in presence of phenolphthalein with 1.000 N alkali. Dividing the no. of cc. used by ten gives the percentage of acid in the tomato as citric acid. Sugars are detd. in another portion of the same filtrate by the methods of C. A. 29, 1738°; 30, 6445°. Tomato juice and canned tomatoes can be exand. by similar methods. By these methods 50-60 analyses can be made in the same time as 15-20 analyses by longer methods. S. S. de Finay

ASD 51 A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND COLUMNS

PROCESSES AND PROPERTIES

7

Iodometric determination of copper in solutions containing sugar and other organic materials. Erzsébet Rosenblüh and Gábor Vavrinecz. Magyar Chem. Folyóirat 40, 80-86(1934).—Copper could be detd. iodometrically even in solns. contg. beet juice when the pH was decreased to 2-3 by means of glacial acetic acid of dil. mineral acids. Before titration 1 g. KI should be added to each 10 cc. of the soln.

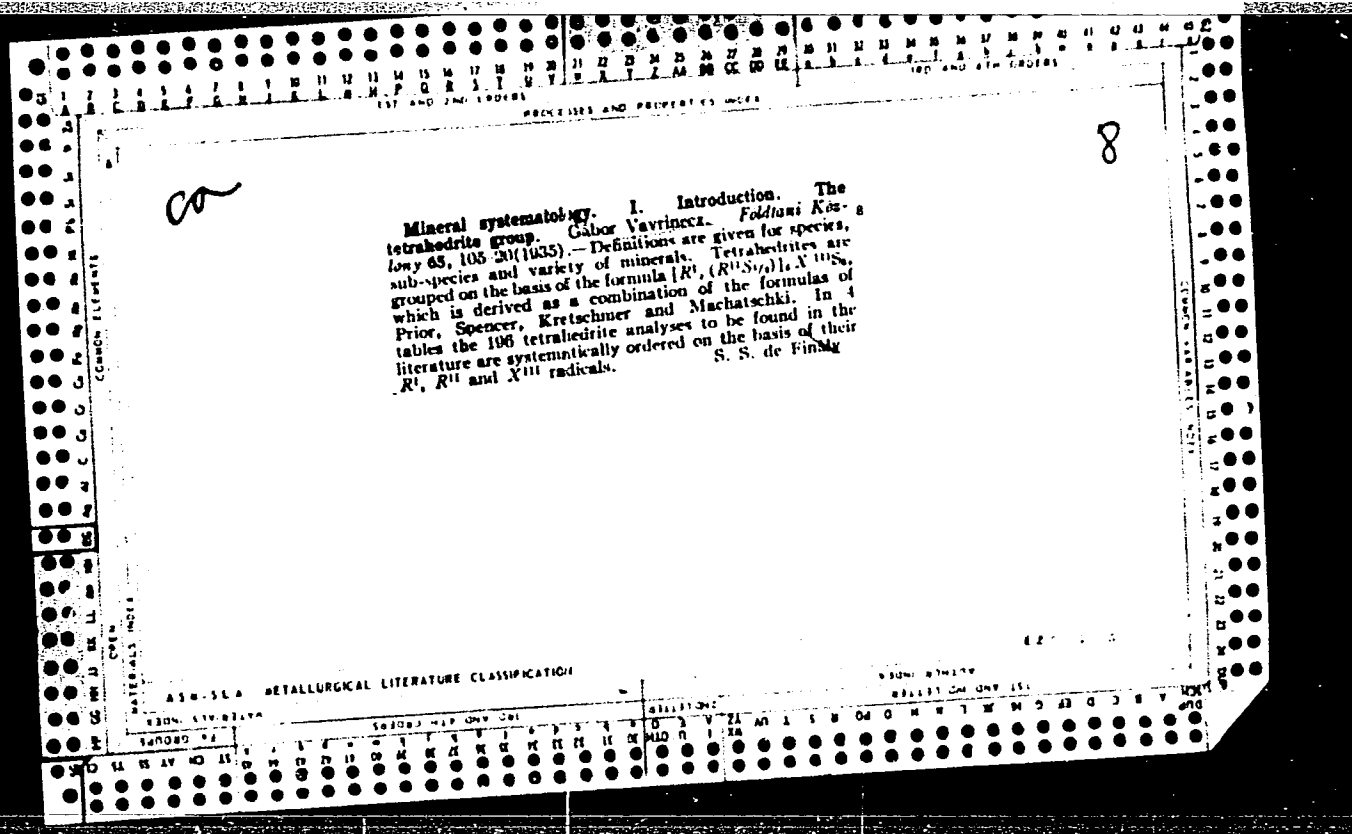
S. S. de Finkly

ASM-STA METALLURGICAL LITERATURE CLASSIFICATION

GROUP

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND CODES																										3RD AND 4TH CODES																									
COMMON ELEMENTS																										SPECIAL ELEMENTS																									
CA Amberite and cosalite from Vasko. László Tokody and Ödön Yavrinecz. <i>Földtani Közlemények</i> 63, 301-5 (1965). A yellowish amberite contained CaO 20.00, MgO 10.30, FeO 15.71, MnO 0.06, CO₂ 43.81, insol. 0.40%. The cosalite analysis shows Pb 39.55, Cu 2.71, Fe 0.25, Bi 40.21, Sb 0.04, S 17.20, insol. 0.71, sum 100.70%; sp. gr. 2 = 0.63. Microscopic and crystallographic data are given S. S. de Fendy																										8																									
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																										E2																									
160000 #1																										160000 #2																									
160000 #3																										160000 #4																									
160000 #5																										160000 #6																									
160000 #7																										160000 #8																									
160000 #9																										160000 #10																									
160000 #11																										160000 #12																									
160000 #13																										160000 #14																									
160000 #15																										160000 #16																									
160000 #17																										160000 #18																									
160000 #19																										160000 #20																									
160000 #21																										160000 #22																									
160000 #23																										160000 #24																									
160000 #25																										160000 #26																									
160000 #27																										160000 #28																									
160000 #29																										160000 #30																									
160000 #31																										160000 #32																									
160000 #33																										160000 #34																									
160000 #35																										160000 #36																									
160000 #37																										160000 #38																									
160000 #39																										160000 #40																									
160000 #41																										160000 #42																									
160000 #43																										160000 #44																									
160000 #45																										160000 #46																									
160000 #47																										160000 #48																									
160000 #49																										160000 #50																									
160000 #51																										160000 #52																									
160000 #53																										160000 #54																									
160000 #55																										160000 #56																									
160000 #57																										160000 #58																									
160000 #59																										160000 #60																									
160000 #61																										160000 #62																									
160000 #63																										160000 #64																									
160000 #65																										160000 #66																									
160000 #67																										160000 #68																									
160000 #69																										160000 #70																									
160000 #71																										160000 #72																									
160000 #73																										160000 #74																									
160000 #75																										160000 #76																									
160000 #77																										160000 #78																									
160000 #79																										160000 #80																									
160000 #81																										160000 #82																									
160000 #83																										160000 #84																									
160000 #85																										160000 #86																									
160000 #87																										160000 #88																									
160000 #89																										160000 #90																									
160000 #91																										160000 #92																									
160000 #93																										160000 #94																									
160000 #95																										160000 #96																									
160000 #97																										160000 #98																									
160000 #99																										160000 #100																									



Analyses of minerals. II. GABON VAVRINEZ. *Magyar Chemiai Folyóirat* 30, 54 (1935); of C. I. 27, 1943. Analyses of stibnite, sphalerite, galena, bismuthinite, Ca-Fe garnet and dolomite are published. Three samples of dolomite from Nuala

mountain had $\text{MgCO}_3/\text{CaCO}_3$ mol. ratios = 47.1/52.9, 47.6/52.4 and 47.8/52.2. Analyses of dolomite confirm the theory of Scherf that the disintegration of dolomites is caused by transcrystn. and not by phys. pressure.

S. S. DR FINLAY

ASD-32A METALLURGICAL LITERATURE CLASSIFICATION

CA 8

Analyses of minerals. GÁBOR VAVRINECZ. *Magyar Chem. Folyóirat* 38, 140-4 (1932).—*Metacinnabarite* from Felsőbánya contained Hg 77.68, Fe 5.30, S 14.97, insol.

1.41%, corresponding to $41\text{HgS} \cdot \text{FeS}$. *Stibiconite* from Szomolnok contained Sb_2O_3 69.56, SiO_2 5.00, Fe_2O_3 1.58, Al_2O_3 0.14, CaO 10.07, MgO 0.53, H_2O 12.13%. *Limonite* from Rákóc contained H_2O 12.67, Fe_2O_3 81.50, SiO_2 2.93 and CaO 0.81%. *Micromite* from Rakovác, Jugoslavia, consisted of 2 layers contg., resp., FeO 5.80, 5.52, CaO 20.97, 20.00, MgO 19.48, 20.07, CO_2 40.39, 40.51 and insol. 0.46, 1.12%. Iron Al garnet from Lower Tatra contained SiO_2 45.5, Al_2O_3 21.3, FeO 26.9 and MgO 6.3%. Analyses are also given of fresh-water limestones from Tihany and Nauheim, of actinolite and amirag-dite from Zillertal and of corundophillites from Helminth and Bockstein. Gypsum crystals were found within the brown coal at Baglyasajja, consisting of H_2O 19.77, CaO 30.58, SO_3 45.00 and Fe_2O_3 4.57%. Epsomite was found in a concrete storeroom where brown coal from Nagymányok was stored and the dripping moisture formed stalac-tite-like crystals. Its compn. was H_2O 40.80–49.00, SO_3 31.34–33.42, MgO 15.77–14.01, Fe_2O_3 0.54–1.15, insol. 0.17–0.21%. S. S. DE PINALY

ASME SIA METALLURGICAL LITERATURE CLASSIFICATION

28

CA

Mixed indicators in the sugar factory laboratory.
*Gábor Vaynsicz and Konstantin Vukov. Magyar
 Kém. Lapja, 3, 399-400 (1948); Sugar Ind. Abstracts
 10, No. 11, 125 (1948). -Optimal alky. can be dealt. by
 finding the alkalinity (by titration, with phenolphthalein*

indicator) and lime contents (with soap soln.) of samples
 of first carbonation juice, and selecting the sample with
 the min. lime content. The process is, however, too
 lengthy for work's practice and control. The methods of
 Brukner and Wentz (C.I. 32, 1688), Stanek and Pavlas
 (C.I. 21, 8976), Winkler, and Spengler and Bottger
 (C.I. 27, 4121) are discussed. Spengler's method is to
 titrate 10 cc. of filtered final satn. juice with N 28 acid,
 with phenolphthalein, until colorless, add methyl red, and
 titrate again until red. In correctly processed juice the 2
 titers are equal. The error of this method is that it simpli-
 fies the causes of juice alky., though the error is insigni-
 ficant except with poor-quality juices; the methyl red
 color change is low, and dark juices, and juices with lime
 salts, etc., give poor results. A mixed indicator, in place
 of methyl red, is proposed: 0.075% methyl red + 0.025%
 of methylene blue. The color changes most sensitive between
 pH 5.1 and 5.7. This is a variation of Groák's mixed
 indicator (C.I. 20, 2391). Results with this mixed in-
 dicator are compared with those obtained by the Brukner-
 indicator (C.I. 20, 2391). Wentz BaCl₂ method (as modified by Stanek-Pavlas).
 Told's indicator (C.I. 21, 1560), with 50 mg. phenol
 red and 7.5 mg. methylene blue in 100 cc. of 90% alc.,
 also gives good results when the juice is well neutralized;
 colors are: acid -yellow green, pH 6.9 -grayish green,
 pH 7.0 -pigeon gray, and above pH 7.2 -violet pink.
 R. D. H.

COMMON ELEMENTS
 OPER
 MATERIALS INDEX
 METALLURGICAL LITERATURE CLASSIFICATION
 SUBJECTS INDEX
 INDEXED HELP ONLY ONE
 REFERENCE
 INDEXED HELP ONLY ONE

JK

CA

Precautions against fire in sugar mills. Gábor Varrinecs.
(Lakotipar 3, 89-8X (1974)).—Prepns. confg. Na_2CO_3 should
be kept in air-tight, closed containers. Storage near
evap. boilers should be avoided. If such a container should
begin to burn, a covering layer of Na_2CO_3 should be applied
to stop the possibility of oxidation. I. Finkly

1957

Enargite specimen from Rozak, Hungary, rich in antimony. GABOR VAVRINEC.
Adyida. Kohász. Lapok 64, 439-4 (1931).—Chem. analysis gave: rock 0.80, Cu 44.84,
 Pb 0.61, Fe 0.09, Zn 0.04, As 7.00, Sb 10.16, S 30.13, H₂O 1.05 and O (by difference)
 4.32%, or Cu₂(As, Sb)₂S₄O₁₀ instead of CuAsS₄. It is supposed that only the oxides
 of S and As were removed, but those of Sb and of heavy metals remained on the spot.
 The mol. ratio of As to Sb would be in this case 1.90:1. S. S. DE FINALLY

ASB 55.4 METALLURGICAL LITERATURE CLASSIFICATION

28

Notes from the [sugar] laboratory. GABRIEL VAVRINEC, Inst. Chem. 31, 18 20, Z. Zuckerind. Czechoslovak. Rep. 56, 555 0 (1962) — A review of recent improvements in lab. technic, methods and app.

FRANK MARSH

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

Notes from the [sugar] laboratory. GABRIEL VAVRINEC. *Listy Cukrovar. 51*, 18 20; Z. Zuckerind. *Czechoslovak. Rep. 50*, 555 6(1932). A review of recent improvements in lab. technic, methods and app.

FRANK MARSH

CD

Decolorization experiments with activated charcoals. GABRIEL VAVRINEC.
Listy Cukrovar. 50, 1944; Z. Zuckerind. Czechoslovak Rep. 56, 547-8 (1942). Analysis
upon seasonal liquors were compared. Since the composition of the liquors changes from
season to season, it is necessary to try the decolorizing power of available charcoals
on com. liquors during each season to det. the most suitable one for the liquor.

FRANK MARSH

28

Decolorization experiments with activated charcoal. GABRIEL VALINKE
Listy Cukrovce 50, 504; *Z. Zuckerind. Czechoslovak Rep.* 56, 547-8 (1952) - Analyses
 upon seasonal liquors were compared. Since the composition of the liquors changes from
 season to season, it is necessary to try the decolorizing power of available charcoals
 on each liquor during each season to determine the most suitable one for the liquor.
 FRANK MARSH

ASH 55.4 METALLURGICAL LITERATURE CLASSIFICATION

VAVRINECZ, G.

"Studies of lump sugar. I." p. 122.

"Appraisal of Hungarian-Soviet Friendship Month." p. 127.

Elelmezesi Ipar, Budapest, Vol. 8, No. 4, Apr. 1954,

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

VAVRINECZ, G.

"Determining the dissolving time of loaf sugar. I. Evaluation of present methods. (p. 155). CUKORIPAR (Cukoripar es a Menogazdasagi Ipari Tudomanyos Egyesulet) Budapest. Vol 6, No 7, July 1953.

SO: East European Accessions List, Vol 3, No 8, Aug 1954.

VAVRINEZ, G.

"Approximate calculation of the specific weight of sugar solutions containing a third component." p. 83.

CUKORIPAR. (Mezőgazdasági és Élelmiszeripari Tudományos Egyesület. Cukoripari Szakosztály). Budapest, Hungary, Vol. 12, No. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

VAVRINECZ, G,

Hungarian Technical Abst.
Vol. 5 No. 4 1953

55. Determination of the ash content of white sugar by means of the Ecsy-Tegze-Vulov conductometer - *Fehér cukor hamu tartalmának meghatározása Ecsy-Tegze-Vulov-féle konduktométerrel* - G. Vavrinecz (The Sugar Industry - *Cukoripar* - Vol. 5, 1953, No. 10, pp. 230-231, No. 11, pp. 247-249, 6 figs., 3 tabs)

The scale of the Ecsy-Tegze-Vulov conductometer, originally constructed for testing raw sugar and beet juices, had to be calibrated for determining the conductance of the ashes of white sugar products. Graduations over the entire length of the scale had to be checked for this purpose as well as the scale multipliers for the A, B and C connections of the instrument. A large number of routine tests have been conducted with KCl solutions diluted to various degrees and with sugar solutions of different concentrations and ash contents. It could be ascertained that the appropriately transformed Arrhenius-Silin formula $\frac{Z_0}{Z_1} = \left(1 - 0.015 \frac{c}{D}\right)^3$ furnishes correct data

on the decrease of conductance in various sugar solutions and that the formula can be properly applied up to a 26% concentration. In this formula Z_0 = conductance of the electrolyte in a pure water solution, Z_1 = same in a sugar solution, c = concentration of the examined sugar solution in percentage by weight, and D = density of the solution. Decreases in the conductance of solutions of various concentrations as well as of the solids and sugar contents of the products have been computed by means of the formula and shown in a table. Another table contains

multipliers corresponding to products of various composition. Values indicated on the scale need be multiplied only by the corresponding multiplier in the table in order to obtain the ash percentage of the tested material.

G. Vavrinecz

VAVRINECZ, G.

Czechoslovakia

CA:47:11779

"Molasses polarization with Herles' lead nitrate clarification."

Mezogazdasag es Ipar 3, No.11/12, 25-7(1949); Sugar Ind. Abstr.
13, No. 2, 27(1951)

VAVRINECZ, G.

Czechoslovakia

CA:47:11770

"Determination of the ash content of white sugar by the Ecsy-Tegze-Vukov conductometer. I."

Cukoripar 5, 230-4 (1952); Sugar Ind. Abstr. 14, 200 (1952)

VAVRINECZ, GABOR

HUNGARY/Chemical Technology. Chemical Products and Their Application. Carbohydrates and Refinement.

H-26

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15927.

Author : Vavrinecz Gabor

Inst :

Title : Calculation of the Amount of Sugar On Hand at Refinery.

Orig Pub: Cukoripar, 1957, 10, No 1-3, 22-26.

Abstract: A method of more precise calculation of the amount of sugar on hand at a refinery, for the purpose of determining overall loss of sugar in the course of production.

Card : 1/1

SKALA, I.; KUJALOVA, V.; SEGOVA, E.; HROMADKOVA, V.; VAVRINKOVA, H.

The effect of the incubation medium on active transport of glucose by the small intestine of the rat in vitro. Physiol. bohemoslov. 12 no.2:118-123 '63.

1. Institute of Human Nutrition, Prague.
(GLUCOSE) (INTESTINE, SMALL) (METABOLISM)
(CARBOHYDRATE METABOLISM)

PECHAR, J.; PETRASEK, R.; VAVRINKOVA, H.; SEGOVA, E.

Oxygen consumption by eruthrocytes following nutritional stimuli.
Physiol. Bohemoslov. 13 no.6:579-583 '64

1. Institute of Human Nutrition, Prague.

VAVRINKOVA, H.; MOSINGER, B.

Liver lipase. Physiol Bohemoslov. 14 no.1:46-52 '65

1. Biochemistry Department and Laboratory of Metabolic regulations, Institute of Human Nutrition, Prague.

KUHN, E.; VOJTECHOVSKY, M.; HORACKOVA, E.; KRAUSOVA, J.; VAVRINKOVA, H.

Reflection of emotions in fat metabolism. *Activ. nerv. sup.* 4 no.2:
175-176 '62.

1. Ustav pro vyzkum vyživu lidu, Praha.

(FATS metab) (EMOTIONS)

KRONDL, A.; MICHALEC, C.; VAVRINKOVA, H.; VOKAC, V.; statistické
zhodnocení ZVOLANKOVA, K.

Effect of the concentration of bile acids for metabolism of lipids.

1. The degree and emulsion of lipids in man. Cesk. gastroent. vyz.
15 no.1:31-38 F '61.

1. Ustav pro vyzkum vyziwy lidu v Praze, reditel doc. MUDr. Josef
Masek Laborator pro proteosyntezu University Karlovy v Praze, prednosta
prof. Jar. Horejci.

(BILE ACIDS AND SALTS physiol.)
(LIPIDS metabolism)

KRONDL, A.; VAVRINKOVA, H.

Role of the concentration of bile acids in the metabolism of lipids.
4. Effect of bovine bile and of tween 80 in the absorption of fats
in man. Cesk. gastroent. vyz. 15 no.5:371-377 Ag '61.

1. Ustav pro vyzkum vyzivy lidu v Praze, reditel doc. MUDr. Josef
Masek.

(FATS metab) (INTESTINES physiol) (BILE pharmacol)
(SURFACE ACTIVE SUBSTANCES pharmacol)

VAVRINKOVA, H.
SURNAME, given name

CIA-RDP86-00513R001859110006-0

Country: Czechoslovakia

Academic Degrees: not given

Affiliation: Human Nutrition Research Institute (Ustav pro Vyzkum Vyziva Lidu) Prague;
Director Docent Josef MASEK, MD

Source: Prague, Ceskoslovenska Gastroenterologie, Vol XV. No 5, Aug 61, pp 371 377
and 378 391

Data: "Role of bile acid concentration in lipid metabolism. Part 4. Influence of
bovine bile and Tween 80 on fat absorption in man. Part 5. Lipid Excretion in
men. Part 6. Summary and Conclusions."

KRONDL, A.
VAVRINKOVA, H.

CZECHOSLOVAKIA

KRONDL, A.; VAVRINKOVA, H.; MICHALEC, C.; stat. zhodnocent: ZVOLANKOVA, K.

Role of the concentration of bile acids in the metabolism of fats.
3. Absorption of fats in man. Cesk. gastroent. vyz. 15 no.4:282-289
Je '61.

1. Ustav pro vyzkum vyživvy lidu v Praze, reditel doc. MUDr. Josef
Masek.
(FATS metab) (BILE ACIDS AND SALTS metab)

KRONDL, A.; VAVRINKOVA, H.; PLACER, Z.; Statisticke zhodnoceni: ZVOLANKOVA,
~~Famila~~

Role of the concentration of bile acids in the metabolism of fats.
II. Digestion of fats with different melting points. Cesk. gastroent.
vyz. 15 no.2:112-116 Mr '61.

1. Ustav pro vyzkum vyziwy lidu v Praze, reditel doc. MUDr. Josef
Masek.

(FATS chem) (BILE ACIDS AND SALTS chem)

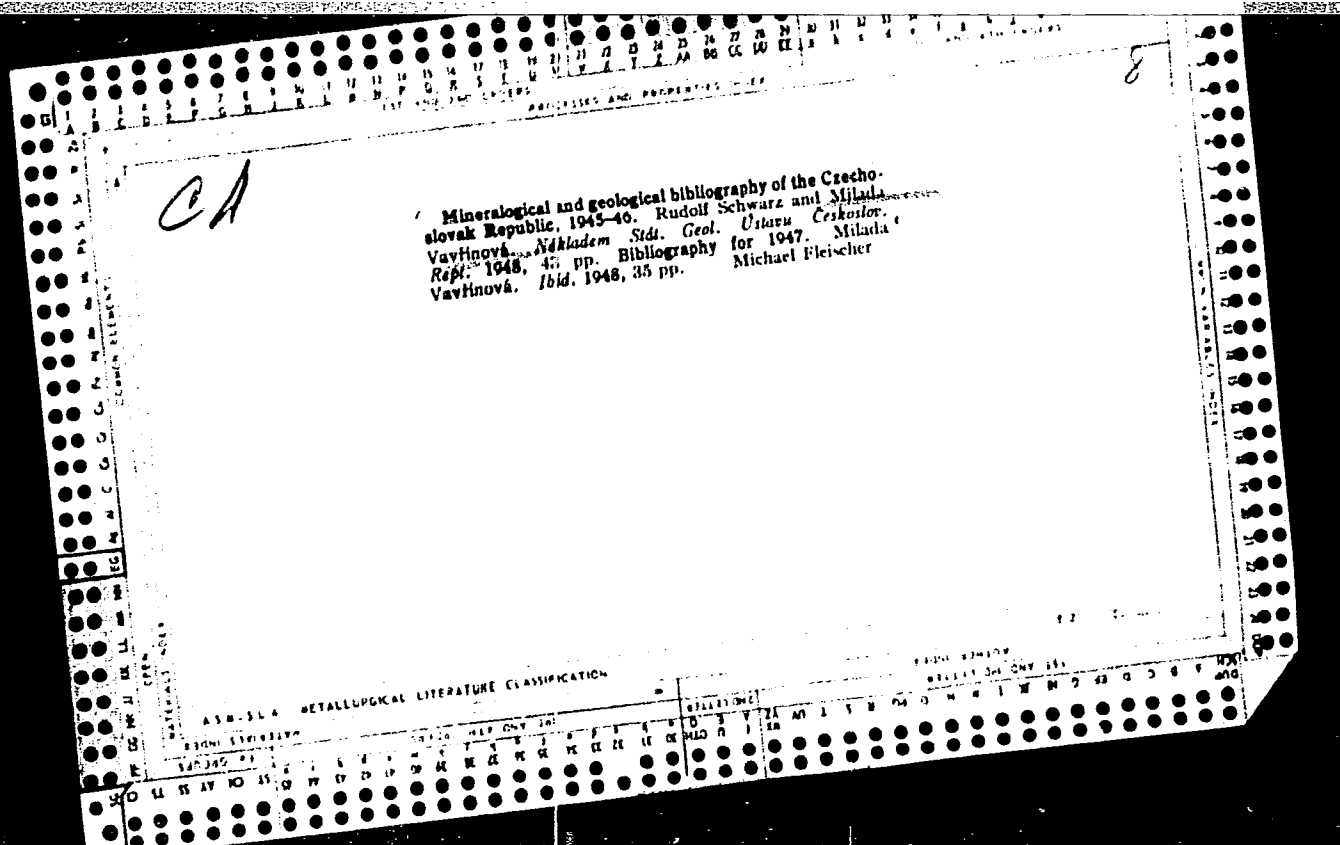
KRONDL, A.; VAVRINKOVA, H.

Role of the concentration of bile acids in metabolism of fats.
5. Lipid excretion in man. 6. Summary and conclusions for
communications No.1-5. Cesk. gastroent. vyz. 15 no.5:378-381
Ag '61.

1. Ustav pro vyzkum vyživu lidu, reditel doc. MUDr. Josef Masek.
(LIFIDS metab)
(BILE ACIDS AND SALTS pharmacol)

VAVRINKOVA, Zdenek, inz.

Measurement of ozone over the ground by the Ehmert's method. Zpravo-
daj VZLU 4:35-37 '62.



CA

Mineralogical-geological bibliography of the Czechoslovak Republic for 1948. Milada Vavřínová. Nákladem Stát. Geol. Ústavu Česk. Repub. 1949, 45 pp.; cf. C.A.I. 43, 8891d. Michael Fleischer

SAVCHIK, A.B.; VAVRINYUK, A.F.

Preservation of homologous skin not detached from a tissue complex.
Genet. i perel. krovi 1:150-153 '65.

(MIRA 18:10)

1. L'vovskiy institut perelivaniya krovi.

VAVRISHCHUK, Boris, vet.-likar.

[Present methods of preserving hog fat in the Ukraine] Suchasni metody konservatsii svyniachoho sala v Ukraini. Miunkhen, 1949. 68 p. [Microfilm] (MLRA 8:9)

1. Ukrainskiy tekhnichno-gospodars'kiy Institut. Veterinarniy fakul'tet, Munich. Kerivnik, Prof. dr. Rozgin I. (Oils and fats)

VAVRJN. B.

Training of Czechoslovak physicians in Russia in the field of radioisotope application.

p. 220 (Jaderna Energie) Vol. 3, No. 7, July 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

MILTENYI, Karoly, dr.; VAVRO, Istvan, dr., foelado

Causes for crimes committed against property in Budapest.
Pt.1. Stat szemle 41 no.10/11:989-998 O-N '63.

1. Kozponti Statisztikai Hivatal osztalyvezetoje (for Miltenyi).
2. Kozponti Statisztikai Hivatal (for Vivro).

CSONKA, Jozsef, foelcado; VAVRO, Istvan, dr.

Some lessons from an investigation. Munka 14 no.8:16-17 Ag '64.

1. Division of Social Statistics, Central Statistical Office, Budapest (for Csonka). 2. Head, Division of Social Statistics, Central Statistical Office, Budapest (for Vavro).

MIKESKA, J., doc. inz.; VAVRO, M., doc. inz.

Pressure stick tests of rocks. Sbor VSB Ostrava 9 no.4:
549-580 '63.

VAVRO, Martin, inz.

Ways to increase the labor productivity. Sbornik skol ban
8 no.2:163-169 '62.

VAVRO, Martin, inz.

Increasing the daily rate of coal face mining. Sbornik skol
ban 8 no.2:171-182 '62.

VAVRO, Martin, doc., inz.

Relation between the daily prgoress of preparatory mining
and logwall mining. Sbor VSB Ostrava 8 no.4:383-395 '62.

MIKESKA, Jindrich, doc., inz.; VAVRO, Martin, doc., inz.

Contribution to the dimensioning the rock pillars in flat seams. Sbor VSB Ostrava 8 no.4:421-444 '62.

VAVRO, Martin, doc. inz.

Influence of deformation processes on mine gas liberation.
Sbor VSB Ostrava 9 no.7:1037-1060 '63.

1. Higher School of Mining, Ostrava.

VAVRO, Martin, inz.

Releasing, collecting and use of methane. Uhli 4 no.10:360
0 '62.

VAVRO, Martin, inz.

Some suggestions on opening and development of mines. Rudy 11
no.1:2-8 Ja '63.

1. Vysoka skola banska, Ostrava.

VAVRO, Martin, doc., inz.

"Coal and gas irruption" by V.V.Chodot. Reviewed by Martin Vavro.
Uhli 4 no.8:288 Ag '62.

1. Vysoka skola banska, Ostrava.

RIMAN, Alois, prof, inz., dr.; VAVRO, Martin, doc., inz.

"Fighting methane in coal mines" by G.D.Lidin, A.T.Ajruni,
F.S.Klebanov and N.G.Matvijenko. Reviewed by Alois Riman and
Martin Vavro. Uhli 4 no.8:287-288 Ag '62.

1. Vysoka skola banska, Ostrava.

VAVRO, Martin, doc., inz.; CERNY, Ivo, inz.

Results and analysis of the measurement of strata movements
in the mine galleries of Gottwald Coal Mine in the Ostrava-
Karvina coal district. Uhli 4 no.3:75-78 Mr '62.

1. Vysoka skola banska, Ostrava (for Vavro).
2. Sdruzeni
Ostravsko-karvinskych dolu, Ostrava (for Cerny).

VAVRO, Martin, inz.

Possibility of increasing the labor productivity in deep ore mines. Rudy 10 no.6:191-197 Je '62.

~~APPROVED FOR RELEASE~~ 08/31/2001 ~~VAVRO, Martin, inz.~~ CIA-RDP86-00513R001859110006-0"

Investigation of gas eruptions in the Ostrava-Karvina coal field.
Uhli 5 no.6:202-204 Je '63.

1. Vysoka skola banska, Ostrava.

VAVRO, M.

Outbursts of methane in the Pecs mines in Hungary. p. 248.

UHLI (Ministerstvo paliv) Praha, Czechoslovakia. Vol. 1, no. 7, July 1959

Monthly list of East European Accessions (EEAI), Vol. 9, no. 1, Jan. 1960

Uncl.

RIMAN, A., prof., dr., inz.; VAVRO, M., doc., inz.

"Mining of coal deposits by short stopes" by A.P.Sudoplatov,
V.F.Parysimov, L.N.Gapanovic [Gapanovich, L.N.], A.V.Starikov
and A.P.Sachorov [Sachorov, A.P.]. Reviewed by A.Riman and M.
Vavro. Uhli 4 no.12:435 D '62.

1. Vysoka skola banska, Ostrava.

CERNY, I., inz. VAVRO, M., doc., inz.

Movement of the direct overburden of wall face No.14,029
in seam No.34 of the President Gottwald Mine in the Ostrava
Karvina coalfield. Sbor VSB Ostrava 9 no.2:265-287 '63.

1. Sdruzeni ostravsko-karvinskych dolu (for Cerny). 2. Vysoka
skola banska, Ostrava (for Vavro).

VAVRO, Martin, inz.

Mining of potassium salts in the German Democratic Republic.
Rudy 11 no.7:216-226 JI '63.

VAVROCH, Kvetoslav

"System of payment in foreign trade operations" by J.Herel. Reviewed
by Kvetoslav Vavroch. Podnik organizace 17 no.1:47 Ja '63.

VAVROCH, O., inz.

"Flame temperature measurement" by A.E.Kadysevic. Reviewed
by O.Vavroch. Jemna mech opt 7 no.6:192 Je '62.

43192

Z/032/62/012/011/001/001
E160/E435

96.2122

AUTHORS: Kuneš, J., Engineer, Vavroch, O., Engineer

TITLE: Application of an analog method for determining the effect of heat conductivity of the material upon temperature and its distribution in a turbine blade

PERIODICAL: Strojírenství, v.12, no.11, 1962, 842-846

TEXT: The authors deal with the effect of varying heat conductivity of material which is often neglected in the thermal studies of engines, where its effect is considered negligible and its absence leads to simplification. Mathematical solution of many thermal problems is very complicated and, apart from a few exceptional cases, they are solved by approximate numerical or analog methods. The aim of this paper is to show, using a cooled turbine blade as an example, the influence of various values, as well as of continuously varying values, of material heat conductivity on the temperature distribution over the cross-section of such a blade. The blade chosen has a very simple cooling arrangement - two circular passages - and is subjected to very unfavourable thermal conditions, an extreme case, eminently suitable to highlight the method. The study is limited to a

Card 1/3

Application of an analog ...

Z/032/62/012/011/001/001
E160/E435

two-dimensional stabilized heat flow. Theoretical treatment of such a case, taking varying material heat conductivity with temperature into account, involves second degree, nonlinear differential equations. Their mathematical solution presents considerable difficulty. The suggested method, based on successive analog approximations, is simple and can also be used for other problems which are described by a similar system of equations. The basis of the method is an electrolytic bath. It has advantages over other electrical analogs normally used for the solution of thermal problems which cater only for linear relationship between the heat conductivity and the temperature of the material. In the method of successive approximations the character of this relationship is immaterial. The heat conductivity is represented by the depth of the electrolyte. The method shows a very high convergence and two or three successive approximations are quite adequate; it is sufficiently accurate and requires no further arithmetical computations. Amongst materials studied in this paper were Nimonic 80 and 90 and austenitic steel. Results: the coefficient of heat

Card 2/3

Application of an analog ...

Z/032/62/012/011/001/001
E160/E435

conductivity has a considerable influence on the temperature inside the blade and thereby on the temperature gradient, which is very important as regards thermal stressing of the blade. It is therefore necessary to take the coefficient of heat conductivity into account when designing thermally stressed machine parts and to endeavour to increase its value. There are 9 figures.

ASSOCIATION: VŠSE, Pizeň

Card 3/3

JERABEK, V., inz.; VAVRON, J., dr.

New aluminum constructions. Poz stavby 11 no.2:107 '63.

EXCERPTA MEDICA Sec 6 Vol 13/9 Internal Med Sent 59

5316. LONG-TERM RESULTS OF THE TREATMENT OF PEPTIC ULCER WITH PROLONGED SLEEP - Dlouhodobé výsledky spánkové léčby vředové choroby - Vavroš B. II. Vnitřního Odd., Munz-Ostrava - VNITŘ. LÉK. 1958, 4/8 (701-707) Graphs 1 Tables 2 Illus. 2

Seventy patients with peptic ulcer treated with prolonged sleep by drugs and 120 patients treated with classical methods were followed up 3.5 yr. on the average. Both groups were nearly identical as to the age, sex, localization of the ulcer, profession, stage and the average duration of the disease. The mode of follow up and that of treatment were systematic and uniform. The treatment of acute stages of peptic ulcer with prolonged sleep showed very favourable immediate results: during treatment lasting a fortnight, the X-ray or gastroscopic signs of fresh ulceration disappeared in 76% of cases, an improvement of clinical findings occurred in 14% and in 10% only, clinical findings remained unchanged. After a period of treatment lasting 3.5 yr. on the average no statistically significant difference ($p = 0.80$) in therapeutical results was found between the 2 compared groups. The frequency of relapses of peptic ulcer was practically the same in both groups.

L 38760-66 EWT(c)/EWP(k)/EWP(h)/T/EWP(l)/EWP(v) IJP(c) DI.

ACC NR: AP6029569

SOURCE CODE: CZ/0057/65/000/009/0386/0388

AUTHOR: Vavros, Zdenek (Engineer); Vojkovsky, Jaromir (Engineer)

50
B

ORG: VZKG, Ostrava

TITLE: Increase in the ¹⁴life of ¹⁴rollers by improved lubrication by surface cooling

SOURCE: Hutnik, no. 9, 1965, 386-388

TOPIC TAGS: metal rolling, lubrication, solid lubricant, metallurgic machinery, cooling, cost estimate

ABSTRACT: Improved methods of lubrication of the surfaces of the rollers are described. The application of solid lubricants and oil injection into enclosed parts of machinery are discussed. The improvement resulted in an increase of the capacity of the rolling train from 920 t/hr to 927 t/hr. The time required for a change of rollers was reduced from 3.2 min/t to 0.23 min/t, and the time for their adjustments from 1.15 min/t to 0.46 min/t. The cost of lubrication was increased by 5 Kcs/t but the cost of rolling decreased by 15 to 17 Kcs/t. Orig. art. has: 3 figures and 1 table. [JPRS]

SUB CODE: 13, 11, 14 / SUBM DATE: none

Card 1/1

0917 2463

VAVROUCH, D.; BOCEK, V.

Some optimum parameters of the Golay detector of infrared radiation. Chekhosl fiz zhurnal 13 no. 6:459-470 '63.

1. Ustav pristrojove techniky, Ceskoslovenska akademie ved, Brno.

ACCESSION NR: AP3003661

Z/0055/63/013/006/0459/0470

AUTHOR: Vavrouch, D.; Bocek, V.

TITLE: Some optimum parameters of Golay detector of infrared radiation

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 13, no. 6, 1963, 459-470

TOPIC TAGS: infrared spectroscopy, Golay detector, pneumatic detector, flexible mirror, flexible mirror deflection, infrared radiation

ABSTRACT: The relation for the sensitivity of the pneumatic detector based on the analysis of the thermal, pneumatic, and optical parts of the instrument is derived, account being taken of the method of indicating the deflection of the flexible mirror and under the assumption that the detector has only time constant and that it can be expressed by a relation of the same form as is valid for a "flat cell." The optimum diameter of the flexible mirror and the optimum gas pressure in the detector cell are calculated from the relation derived. The resultant expressions for the optimum diameter differ somewhat from the results published by Yosihara (reference given), who did not take into consideration the method of indicating the deflection of the flexible mirror. Orig. art. has: 4 figures and 31 formulas.

Card 1/2

ACCESSION NR: AP3003661

ASSOCIATION: Ustav pristrojove techniky CSAV, Brno (Institute of Instrument Technology, CSAV)

SUBMITTED: 14Apr61

DATE ACQ: 16Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 011

Card 2/2

VAVROUCH, D.

Ladobatory pH-meter with vibrating capacitor.

P. 455 (Slaboproudý Obzor. Vol. 18, no. 7, July 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

VAVROUCH, Dusan, inz.

Electrometer amplifier with a dynamic condenser. Slatoproudý
obzor 23 no.8:467-472 Ag '62.

1. Ustav pristrojove techniky, Ceskoslovenska akademie
ved, Brno.